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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/739,318	12/19/2000	Yuji Murayama	SON-1976	2545

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WASHINGTON, DC 20036

EXAMINER

LABAZE, EDWYN

ART UNIT	PAPER NUMBER
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2876

DATE MAILED: 05/24/2002

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Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/739,318

Applicant(s)

MURAYAMA ET AL. 

Examiner

EDWYN LABAZE

Art Unit

2876

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 19 December 2000.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 December 2000 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)                      4) ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)                      5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_                      6) ☐ Other: \_\_\_\_\_

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## DETAILED ACTION

### *Priority*

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### *Drawings*

2. The drawings are objected to because figures 12(A, B), 14(A, B, C, D, E) and 15 (A-1, A-2, B, C-1, C-2){see (page 6, lines 4,6,9,14,24); (page 8, lines 1,3,4); (page 7, lines 6,22)} of the specification should be designated as --Prior Art--. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

### *Specification*

3. The abstract of the disclosure is objected to because the language such as "is disclosed" in the abstract should be deleted. Correction is required. See MPEP § 608.01(b).

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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4. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Carrender (U.S. Patent No. 5,850,187).

Re claim 1: Carrender discloses an IC tag reader and wireless communication link system an method thereof capable of detecting high frequency signal such as 915 MHz (see col.2, lines 18-19; and col.3, lines 16-18) from an antenna 12 (col. 3, line 20; and col. 3, lines 36+), which includes a sampling device 702 for sampling the detected/received signal (col. 9, lines 30-31), and a signal processor 208 (col. 9, line 21) to process and decode the received RF signal (col. 10, lines 6-7).

Re claim 2: Carrender teaches that the above system also includes a binary pattern of "1" and "0" (col.4, lines 16-23; and col.6, lines 59-62), which serves as a binarizer.

Re claims 3-6: Carrender discloses that the apparatus includes an electronic tag reader (col. 2, line 12; and col.4, lines 24-33) and a reader/writer (col.2, line 17; col.4, lines 24-33) also known in the art as an Integrated Circuit Card (IC Card) capable of both reading and transmitting data therefrom (col. 2, lines 12-14), detecting the high frequency signals up to 915 MHz from the antenna (col.3, lines 17-19), decoding data of the received signals (col. 10, lines 6-7) and sampling the received data (col. 9, lines 31-34) to bit checker.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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5. Claims 7-12 are rejected under U.S.C. 103(a) as being unpatentable over Carrender (U.S. 5,850,187) in view of Wada (U.S. 5,602,879).

The teachings of Carrender have been discussed above.

Carrender fails to teach the clock regenerating technique and the detection of the correlation value signals

Wada teaches a clock recovery scheme 40 (col. 7, line 25) including a correlation detection circuit 41 (col. 7, line 27).

In view of Wada's teaching, it would have been obvious to an artisan of the ordinary skill in the art at the time the invention was made to integrate a clock recovery circuit and a correlator to the teaching of Carrender in order to point out the similarity in signal between the clock signal and the received signal. Furthermore, such modification would enhance the teaching of Carrender to execute the detection of the degradation of bits error in order to optimize the monitoring of the correlation, which reduces the noise level and thus improves the signal-to-noise ratio (SNR).

### *Conclusion*

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Katayama U.S. Patent No. 5,418,353 discloses a non-contact IC card communication in which power consumption of a driver of a reader/writer is reduced.

Shinji Ozaki U.S. Patent No. 5,502,749 teaches a radio receiver apparatus receiving a transmission signal having a reference pattern formed of a predetermined bit pattern.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to EDWYN LABAZE whose telephone number is (703) 305-5437. The examiner can normally be reached on 7:30 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Lee can be reached on (703) 305-3503. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

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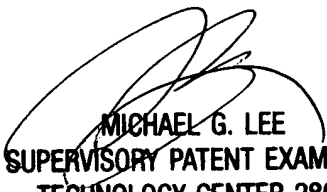
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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

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May 10, 2002



MICHAEL G. LEE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2800

EI  
4/19/02